The Influence of Turbulent Mixing on the Chemistry of Protoplanetary Disks

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Protoplanetary disks are known to be turbulent. The mixing caused by the motions in the disk may have an effect on the chemistry by bringing material from the cold central regions to warmer surface layers and vice versa. Here we present preliminary results from a model of the outer disk ($R > 100$ AU) which incorporates turbulent diffusive mixing in the vertical direction. We present abundance profiles of important species and discuss how mixing affects the chemical composition of the disk.

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